

Claims

1. A calibration pipette comprising
 - a piston in a cylinder actuated by a motor and means for moving the piston over
 - 5 a distance such that a given liquid dosing volume is aspirated into or dispensed out of the pipette,
 - a control system,
 - a user interface (1, 2)
 - an electronic display (3), in which the dosing volume is indicated, and
 - 10 - a calibration function, characterised in that
 - the calibration function is such that at least one real volume obtained with an indicated volume is input via the user interface into the control system and that the control system calculates calibration settings based on the input and stores them
 - 15 in a memory, by means of which settings the stroke length of the piston or the volume indicated on the display is corrected so that the volume indicated on the display equals the real dosing volume, and that
 - the calibration resolution is less than 0.1 %, preferably less than 0.05 % and most preferably less than 0.01 %.
- 20 2. A pipette as defined in claim 1, in which the control system corrects the stroke length of the piston by means of the calibration settings.
3. A pipette as defined in claim 1 or 2, comprising a motor (14) for actuating the
- 25 piston.
4. A pipette as defined in any of the preceding claims, in which the dosing volume is adjustable.
- 30 5. A pipette as defined in claim 4, in which the calibration function comprises input of the real volumes obtained with at least and preferably two indicated volumes.
6. A pipette as defined in claim 5, in which the control system calculates the calibration settings assuming that the real volume is in linear dependence with the set
- 35 volume.

7. A pipette as defined in any of the preceding claims, in which the control system is such that allows storage of a plurality of calibration settings in parallel, so that the settings corresponding to the current pipetting function can be selected for use each time.

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8. A system for controlling a calibration pipette, the pipette comprising
- a piston actuated in a cylinder and a motor for actuating the piston over a distance such that a given liquid dosing volume is aspirated or dispensed out of the pipette,

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- a user interface (1, 2),
- an electronic display (3) in which the dosing volume is indicated, and
- a calibration function,
characterised in that

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- the calibration function is such that real at least one volume obtained with indicated volume is input over the user interface into the control system and that the control system calculates calibration settings based on the input and stores them in a memory, by means of which settings the stroke length of the piston or the volume indicated on the display is corrected so that the volume indicated on the display equals the real dosing volume, and that

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- the calibration resolution is less than 0.1 %, preferably less than 0.05 % and most preferably less than 0.01 %.

9. A method for calibrating a pipette, the pipette comprising

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- a piston actuated in a cylinder, a motor for actuating the piston over a distance such that a given liquid dosing volume is aspirated or dispensed out of the pipette, and means for changing the dosing volume,

- a control system,
- a user interface (1, 2),
- an electronic display (3), in which the dosing volume is indicated

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characterised in that

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- the real volumes obtained with at least two indicated volumes are input via the user interface (1, 2) into the control system, the control system being allowed to calculate calibration settings on these real volumes and to store them in a memory, by means of which calibration settings the control system corrects the stroke length of the piston or the volume indicated on the display so that the volume indicated on the display equals the real dosing volume, and that

- the calibration resolution is less than 0.1 %, preferably less than 0.05 % and most advantageously less than 0.01 %.